IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Attorney Docket No. 2011 0332

Masayoshi TAKAHASHI et al. : Confirmation No. 9788

Serial No. 10/574,052 : Group Art Unit 1778

Filed October 13, 2006 : Examiner Lucas A. Stelling

METHOD FOR COLLAPSING : Mail Stop: AMENDMENT

MICROBUBBLES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Sir

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the information listed on attached Form PTO/SB/08.

1a. [] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the aboveentitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [X] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) [] the certification of paragraph 2 below is provided, or

The USPTO is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17, and 1.492, which may be required by this paper to Deposit Account No. 23-0975.

- (2) [X] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
 1c. [] This Information Disclosure Statement is submitted:
 after the mailing date of a final Office Action or Notice of Allowance or action which
 - otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, <u>and</u>
the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
 - a. [] that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement (37 C.F.R. § 1.97(e)(1)), or
 - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in \$1.56(c) more than three months prior to the filing of the Statement (37 C.F.R. § 1.97(e)(2)).
- For each non-English language reference listed on the attached Form PTO/SB/08, reference is made to one or more of the following:
 - a. [] a full or partial English language translation submitted herewith,
 - b. [] an International Search Report submitted herewith,
 - c. [] a foreign patent office search report or office action (in the English language) submitted herewith,

- d. [] the concise explanation contained in the specification of the present application at page,
- e. [] the concise explanation set forth in the attached English language abstract,
- f. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- 4. [] A foreign patent office search report citing one or more of the references is enclosed.

5. [] Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Masayoshi TAKAHASHI et al. /David M. Ovedovitz/ By _2011.08.23 12:29:30 -04'00'

David M. Ovedovitz
Registration No. 45,336
Attorney for Applicants

DMO/kjf Washington, D.C. 20005-1503 Telephone (202) 721-8200 Facsimile (202) 721-8250 August 23, 2011

Sheet 1 of 1 INFORMATION DISCLOSURE STATEMENT									
FORM PTO/SB/	08 A&B	(modified)	ATTY DOCKET NO. 2011 0332			SERIAL NO. 10/574.052			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				APPLICANT Massyoshi TAKAHASHI et al.					
1	(Use	RENCES CITED BY APPLIC e several sheets if necessary)	FILING DATE October 13, 2006			GROUP			
	Date Sub	omitted to PTO: August 23, 20	U.S. PATENT DOCUMENTS						
*EXAMINER	The second secon								
INITIAL		NUMBER	DATE	NAME			CLASS	SUBCLASS	IF APPROPRIATE
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES		NO NO
	BA								
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	BC								
	BD								
	BE								
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)									
	CA	Massyoshi Takahashi, "Potential of Microbubbles in Aqueous Solutions: Electrical Properties of the Gas – Water Interface". National Institute of Advanced Industrial Science and Technology (AIST), J. Phys. Chem. B, Vol. 109, No. 46, October 2005, pages 21858-21864.							
	СВ	Masayoshi Takahashi et al., "Free-Radical Generation from Collapsing Microbubbles in the Absence of a Dynamic Stimulus", National Institute of Advanced Industrial Science and Technology (AIST), J. Phys. Chem. B, Vol. 111, No. 6, January 2007, pages 1343-1347.							
	СС	Massyoshi Takahashi et al., "Formation of Hydroxyl Radicals by Collapsing Ozone Microbubbles under Strongly Acidic Conditions", National Institute of Advanced Industrial Science and Technology (AIST), J. Phys. Chem. B, Vol. 111, No. 39, September 207, pages 11443-11446.							
	CD	Hiroshi Moriwaki et al., "Sonochemical Decomposition of Perfluorocetane Sulfonate and Perfluorocetanoic Acid", Environmental Science and Technology, Vol. 39, No. 9, March 2005, pages 3388-3392.							
EXAMINER	DATE CONSIDERED								